

Amendments to the Claims:

This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-18 (Cancelled)

19 (Previously Presented): A rechargeable lithium ion battery, comprising:

(a) a positive electrode comprising:

 a collecting electrode; and

 an active material layer formed on the collecting electrode,

 the active material layer containing particles of a positive electrode active material within a prescribed particle size range,

 the active material layer having a layer thickness within a prescribed layer thickness range,

 the active material layer comprising

 a first active material layer having a first porosity within a first porosity range, and

 a second active material layer having a second porosity within a second porosity range higher than the first porosity range, wherein the first active material layer and the second active material layer contain particles of substantially the same particle size;

(b) a negative electrode; and

(c) a non-aqueous electrolytic solution.

20 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 19, wherein the first porosity range is apart from the second porosity range.

21-22 (Cancelled)

23 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 19, wherein the first active material layer is closer to the collecting electrode than the second active material layer.

24-25 (Cancelled)

26 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 19, wherein the active material layer has an average porosity thereof adjusted within a prescribed average porosity range.

27 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 26, wherein the average porosity range is set within a range of 50% or more.

28 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 27, wherein the average porosity range is set within a range of 50% to 60%.

29 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 27, wherein the particle size range is set within a range of 5 μm or less in terms of an average particle diameter.

30 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 29, wherein the layer thickness range is set within a range of 20 μm to 80 μm .

31 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 30, wherein the layer thickness range is set within a range of 20 μm to 30 μm .

32 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 30, wherein the active material layer comprises:

the first active material layer formed with a first thickness on the collecting electrode; and
the second active material layer formed with a second thickness on the first active material layer,

the first and second thicknesses are each set within a range of 20 μm to 30 μm ,
the first active material layer has the first porosity within a range of 30% to 50%, and
the second active material layer has the second porosity thereof within a range of 50% to 60%.

33 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 19, wherein the positive electrode active material comprises lithium manganese oxide.

34 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 19, wherein the non-aqueous electrolytic solution contains a concentration of electrolyte within a range of 1.0 mol/l to 3.0 mol/l.

35 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 34, wherein the concentration of electrolyte is set within a range of 1.5 mol/l to 2.5 mol/l.

36 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 19, wherein the non-aqueous electrolytic solution contains an electrolyte comprising one of LiPF_6 and LiBF_4 .

37 (Previously Presented): The rechargeable lithium ion battery as claimed in claim 19, wherein the first and second active material layers have a thickness thereof within a range of 20 μm to 30 μm .

38-41 (Cancelled)

42 (Previously Presented): A rechargeable lithium ion battery comprising:

(a) a positive electrode comprising:

a collecting electrode; and

an active material layer formed on the collecting electrode,

the active material layer containing particles of a positive electrode active material within a prescribed particle size range,

the active material layer having a layer thickness within a prescribed layer thickness range,

the active material layer having a local porosity thereof changed along a direction of the layer thickness,

wherein the active material layer comprises:

a first active material layer formed with a first porosity; and

a second active material layer formed with a second porosity changed from the first porosity, wherein

the first active material layer is closer to the collecting electrode than the second active material layer, and the first porosity is lower than the second porosity; and

wherein the first active material layer and the second active material layer contain particles of substantially the same particle size;

(b) a negative electrode; and

(c) a non-aqueous electrolytic solution.

43-47 (Cancelled)